

# (Pro-)Étale Cohomology

Prof. Dr. Torsten Wedhorn, Prof. Dr. Timo Richarz

## Contact

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## Time and Place

Thursdays, 09:50-11:30, 13:30-15:10 in S2|15-401

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## Contents

Étale cohomology is one of the basic cohomology theories for schemes. It is the analogue of singular cohomology for (paracompact locally contractible) topological spaces. It is an indispensable tool in number theory and algebraic geometry. The goal of this lecture is to give an introduction to this topic.

## Literature

- P. Deligne: Cohomologie étale: les points de départ, [SGA 4h](#).
- J. de Jong et. al.: [The Stacks Project](#).
- P. Scholze, B. Bhatt: [The pro-étale topology for schemes](#).

## Exercise sheets

- [Exercise sheet 1](#)
- [Exercise sheet 2](#)
- [Exercise sheet 3](#)
- [Exercise sheet 4](#)
- [Exercise sheet 5](#)
- [Exercise sheet 6](#)
- [Exercise sheet 7](#)
- [Exercise sheet 8](#)
- [Exercise sheet 9](#)
- [Exercise sheet 10](#)
- [Exercise sheet 11](#)
- [Exercise sheet 12](#)
- [Exercise sheet 13](#)
- [Exercise sheet 14](#)

### **Exercise session**

M.Sc. Timo Henkel

There are weekly exercise sessions accompanying the lecture.

### **Exam**

This is an oral exam. For more information contact one of the lecturers directly.